

TRANSPORTATION CONFORMITY WORKSHOP

Phoenix, Arizona

July 6, 2006

8:30 am – 4:00 pm

Part A: Introduction

- Section I: Course Overview

Part B: Transportation Conformity

- Section II: Conformity Overview
- Section III: Conformity Applicability/Frequency
- Section IV: Major Conformity Requirements
- Section V: Conformity Requirements: Other

Part C: Special Topics

- Section VI: Consequences of SIP Failures and Conformity Lapses
- (Lunch)
- Section VII: Emissions Estimation and Modeling Basics
- Section VIII: Project-level Conformity
- Section IX: Rural Area Conformity
- Section X: Resources

Welcome to FHWA's **Transportation Conformity 101** Course!

Dear Participant,

FHWA is pleased to be working with you to advance transportation goals and objectives in keeping with environmental stewardship activities.

Please note, materials presented as part of this course are for informational purposes, to explore the transportation conformity regulations, policies and practices to better advance transportation objectives. As with any regulation, it is wise to refer to the actual regulatory text, Federal guidance, and other official information for a full understanding of requirements. Where possible, relevant references have been noted. This course material is not intended to replace or supercede actual regulations or guidance. It is for informational and discussion purposes. Please refer to official material provided by the U.S. Environmental Protection Agency or the U.S. Department of Transportation, for specific language and requirements related to transportation conformity, most of which is readily available on the Internet.

Thank you. We hope you enjoy the course.

Transportation Conformity 101

ACRONYMS

CAA	Clean Air Act
CAAA	Clean Air Act Amendments of 1990
CFR	Code of Federal Regulations
CMAQ	Congestion Mitigation and Air Quality
CO	Carbon Monoxide
CO ₂	Carbon Dioxide
EAC	Early Action Compact
EPA	United States Environmental Protection Agency
FHWA	Federal Highway Administration
FIP	Federal Implementation Plan
FRN	Federal Register Notice
FTA	Federal Transit Administration
HC	Hydrocarbons
HOV	High Occupancy Vehicle
I/M	Inspection and Maintenance Program
ISTEA	Intermodal Surface Transportation and Equity Act
LRP	Long Range Plan
MOVES	Motor Vehicle Emissions Simulator
MPO	Metropolitan Planning Organization
NAAQS	National Ambient Air Quality Standards
NEPA	National Environmental Policy Act of 1969, as amended
NH ₃	Ammonia
NO _x	Nitrogen Oxides
O ₃	Ozone
Pb	Lead
PIP	Public Involvement Plan
PM	Particulate Matter
RFP	Rate of Further Progress
ROP	Rate of Progress
RTP	Regional Transportation Plan
SIP	State Implementation Plan
SO _x	Sulfur Oxides
SOV	Single Occupancy Vehicle
STIP	Statewide Transportation Improvements Program
STP	Surface Transportation Program
TCM	Transportation Control Measure
TEA-21	Transportation Equity Act for the 21 st Century
TERM	Transportation Emission Reduction Measure
TIP	Transportation Improvement Program
UPWP	Unified Planning Work Program
US DOT	United States Department of Transportation
USC	United States Code
VMT	Vehicle Miles of Travel
VOC	Volatile Organic Compounds

Resource and acronym look-up tool:

FHWA Planning Glossary http://www.fhwa.dot.gov/planning/glossary/glossary_listing.cfm

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DEFINITIONS

These definitions are for general information purposes only. At times, terms can take on different and sometimes very specific meanings depending on its application. For regulatory purposes, readers should refer to the definitions as listed in the relevant section of the law, regulation, or guidance.

Keyword	Definition
1-Hour Ozone NAAQS	The 1-hour ozone national ambient air quality standard codified at 40 CFR 50.9.
23 USC 134	Metropolitan Planning
23 USC 135	Statewide Planning
40 CFR 51	Requirements for Preparation, Adoption, and Submittal of Implementation Plans; Subpart T-Conformity to State or Federal Implementation Plans of Transportation Plans, Programs, and Projects Developed, Funded or Approved Under Title 23 U.S.C. or the Federal Transit Laws; Section 51.390, Implementation Plan Revision
40 CFR 52	Approval and Promulgation of Implementation Plans; Sections 5230-5234, Sanctions
40 CFR 93	Conformity to State or Federal Implementation Plans of Transportation Plans, Programs, and Projects Developed, Funded or Approved under Title 23 U.S.C. or the Federal Transit Laws
8-Hour Ozone NAAQS	The 8-hour ozone national ambient air quality standard codified at 40 CFR 50.10.
Area Source	Small stationary and non-transportation pollution sources that are too small and/or numerous to be included as point sources but may collectively contribute significantly to air pollution (e.g., dry cleaners).
Arterial	A class of roads serving major traffic movements (high-speed, high volume) for travel between major points.
Attainment Area	An area considered to have air quality that meets or exceeds the U.S. Environmental Protection Agency (EPA) health standards used in the Clean Air Act. Nonattainment areas are areas considered not to have met these standards for designated pollutants. An area may be an attainment area for one pollutant and a nonattainment area for others.
Automobile	A privately owned and/or operated licensed motorized vehicle including cars, jeeps and station wagons. Leased and rented cars are included if they are privately operated and not used for picking up passengers in return for fare. (FHWA3)
Average Annual Daily Traffic (AADT)	The total volume of traffic on a highway segment for one year, divided by the number of days in the year.
Carbon Dioxide (CO ₂)	1) A fluid consisting of more than 90 percent carbon dioxide molecules compressed to a supercritical state. (49CFR195) 2) A colorless, odorless gas. It is not a liquid under standard temperature and pressure.
Carbon Monoxide (CO)	A colorless, odorless, highly toxic gas that is a normal by-product of incomplete fossil fuel combustion. Carbon monoxide, one of the major air pollutants, can be harmful in small amounts if breathed over a certain period of time. (DOE6)
Clean Air Act Amendments (CAAA)	The original Clean Air Act was passed in 1963, but the national air pollution control program is actually based on the 1970 version of the law. The 1990 Clean Air Act Amendments are the most far-reaching revisions of the 1970 law. The 1990 Clean Air Act is the most recent version of the 1970 version of the law. The 1990 amendments made major changes in the Clean Air Act.
Clean data	Air quality monitoring data determined by EPA to meet the requirements of 40 CFR part 58 that indicate attainment of the national ambient air quality standard (source: conformity rule)
Code of Federal Regulations (CFR)	A compilation of the general and permanent rules of the executive departments and agencies of the Federal Government as published in the Federal Register. The code is divided into 50 titles that represent broad areas subject to Federal regulation. (DOE5)
Collector (Highway)	In rural areas, routes that serve intracounty rather than statewide travel. In urban areas, streets that provide direct access to neighborhoods and arterials.
Congestion Management System (CMS)	Systematic process for managing congestion. Provides information on transportation system performance and finds alternative ways to alleviate congestion and enhance the mobility of people and goods, to levels that meet state and local needs.

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Congestion Mitigation & Air Quality Improvement Program (CMAQ)	A categorical Federal-aid funding program created with the ISTEA. Directs funding to projects that contribute to meeting National air quality standards. CMAQ funds generally may not be used for projects that result in the construction of new capacity available to SOVs (single-occupant vehicles).
Control Strategy Implementation Plan Revision	The implementation plan which contains specific strategies for controlling the emissions of and reducing ambient levels of pollutants in order to satisfy CAA requirements for demonstrations of reasonable further progress and attainment (including implementation plan revisions submitted to satisfy CAA sections 172(c), 182(b)(1), 182(c)(2)(A), 182(c)(2)(B), 187(a)(7), 187(g), 189(a)(1)(B), 189(b)(1)(A), and 189(d); sections 192(a) and 192(b), for nitrogen dioxide; and any other applicable CAA provision requiring a demonstration of reasonable further progress or attainment).
Corridor	A broad geographical band that follows a general directional flow connecting major sources of trips that may contain a number of streets, highways and transit route alignments. (APTA1)
Department of Transportation (DOT)	Establishes the nation's overall transportation policy. Under its umbrella there are ten administrations whose jurisdictions include highway planning, development and construction; urban mass transit; railroads; aviation; and the safety of waterways, ports, highways, and oil and gas pipelines. The Department of Transportation (DOT) was established by act of October 15, 1966, as amended (49 U.S.C. 102 and 102 note), "to assure the coordinated, effective administration of the transportation programs of the Federal Government" and to develop "national transportation policies and programs conducive to the provision of fast, safe, efficient, and convenient transportation at the lowest cost consistent therewith." (OFR1)
Design Concept	The type of facility identified by the project, e.g. freeway, expressway, arterial highway, grade-separated highway, reserved right-of-way rail transit, mixed-traffic rail transit, exclusive busway, etc. (source: conformity rule)
Design Scope	The design aspects which will affect the proposed facility's impact on regional emissions, usually as they relate to vehicle or person carrying capacity and control, e.g., number of lanes or tracks to be constructed or added, length of project, signalization, access control including approximate number and location of interchanges, preferential treatment for high-occupancy vehicles, etc. (source: conformity rule)
Donut Areas	Geographic areas outside a metropolitan planning area boundary, but inside the boundary of a nonattainment or maintenance area that contains any part of a metropolitan area(s). These areas are not isolated rural nonattainment and maintenance areas.
Emissions Budget	The part of the State Implementation Plan (SIP) that identifies the allowable emissions levels, mandated by the National Ambient Air Quality Standards (NAAQS), for certain pollutants emitted from mobile, stationary, and area sources. The emissions levels are used for meeting emission reduction milestones, attainment, or maintenance demonstrations.
Emissions Inventory	A complete list of sources and amounts of pollutant emissions within a specific area and time interval.
Enhancement Activities	Refers to activities related to a particular transportation project that 'enhance' or contribute to the existing or proposed project. Examples of such activities include provision of facilities for pedestrians or cyclists, landscaping or other scenic beautification projects, historic preservation, control and removal of outdoor advertising, archaeological planning and research, and mitigation of water pollution due to highway runoff.
Environmental Impact Statement (EIS)	Report developed as part of the National Environmental Policy Act requirements, which details any adverse economic, social, and environmental effects of a proposed transportation project for which Federal funding is being sought. Adverse effects could include air, water, or noise pollution; destruction or disruption of natural resources; adverse employment effects; injurious displacement of people or businesses; or disruption of desirable community or regional growth.
Environmental Protection Agency (EPA)	The federal regulatory agency responsible for administering and enforcing federal environmental laws, including the Clean Air Act, the Clean Water Act, the Endangered Species Act, and others.
Federal Highway Administration (FHWA)	A branch of the US Department of Transportation that administers the federal-aid Highway Program, providing financial assistance to states to construct and improve highways, urban and rural roads, and bridges. The FHWA also administers the Federal Lands Highway Program, including survey, design, and construction of forest highway system roads, parkways and park roads, Indian reservation roads, defense access roads, and other Federal lands roads. The Federal agency within the U.S. Department of Transportation responsible for administering the Federal-Aid Highway Program. Became a component of the Department of Transportation in 1967 pursuant to the Department of Transportation Act (49 U.S.C. app. 1651 note). It administers the highway transportation programs of the Department of Transportation under pertinent legislation

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Federal Register	Daily publication which provides a uniform system for making regulations and legal notices issued by the Executive Branch and various departments of the Federal government available to the public. (USCG1)
Federal Transit Administration (FTA)	A branch of the US Department of Transportation that is the principal source of federal financial assistance to America's communities for planning, development, and improvement of public or mass transportation systems. FTA provides leadership, technical assistance, and financial resources for safe, technologically advanced public transportation to enhance mobility and accessibility, to improve the Nation's communities and natural environment, and to strengthen the national economy. (Formerly the Urban Mass Transportation Administration) operates under the authority of the Federal Transit Act, as amended (49 U.S.C. app. 1601 et seq.).
Federal-aid Highway Program (FAHP)	An umbrella term for most of the Federal programs providing highway funds to the States. This is not a term defined in law. As used in this document, FAHP is comprised of those programs authorized in Titles I and V of TEA-21 that are administered by FHWA.
Federal-Aid Highways	Those highways eligible for assistance under Title 23 U.S.C. except those functionally classified as local or rural minor collectors. (23CFR500)
Financial Capacity	Refers to the ISTEA requirement that an adequate financial plan for funding and sustaining transportation improvements be in place prior to programming Federally-funded projects. Generally refers to the stability and reliability of revenue in meeting proposed costs.
Financial Programming	A short-term commitment of funds to specific projects identified in the regional Transportation Improvement Program (see TIP).
Fine Particulates	Particulate matter less than 2.5 microns in size (PM-2.5). A micron is one millionth of a meter. See "Particulate matter" below.
Fiscal Constraint	Making sure that a given program or project can reasonably expect to receive funding within the time allotted for its implementation.
Fiscal Year (FY)	The yearly accounting period beginning October 1 and ending September 30 of the subsequent calendar year. Fiscal years are denoted by the calendar year in which they end (e.g. FY 1991 began October 1, 1990, and ended September 30, 1991).
Fixed-Route	Term applied to transit service that is regularly scheduled and operates over a set route; usually refers to bus service.
Freeway	A divided arterial highway designed for the unimpeded flow of large traffic volumes. Access to a freeway is rigorously controlled and intersection grade separations are required.
High Occupancy Vehicle (HOV)	Vehicles carrying two or more people. The number that constitutes an HOV for the purposes of HOV highway lanes may be designated differently by different transportation agencies.
High Occupancy Vehicle Lane	Exclusive road or traffic lane limited to buses, vanpools, carpools, and emergency vehicles. (APTA1)
Highway	Is any road, street, parkway, or freeway/expressway that includes rights-of-way, bridges, railroad-highway crossings, tunnels, drainage structures, signs, guardrail, and protective structures in connection with highways. The highway further includes that portion of any interstate or international bridge or tunnel and the approaches thereto (23 U.S.C. 101a). (FHWA2)
Horizon Year	Year for which the transportation plan describes the envisioned transportation system according to 40 CFR 93.106. (source: conformity rule)
Hot-spot Analysis	Estimation of likely future localized CO and PM10 pollutant concentrations and a comparison of those concentrations to the national ambient air quality standard. Hot-spot analysis assesses impacts on a scale smaller than the entire nonattainment or maintenance area, including , for example, congested roadway intersections and highways or transit terminals, and uses an air quality dispersion model to determine the effects of emissions on air quality. (source: conformity rule)
Hydrocarbons (HC)	Colorless gaseous compounds originating from evaporation and the incomplete combustion of fossil fuels.
"Increase the frequency or severity"	Cause a location or region to exceed a standard more often or to cause a violation at a greater concentration than previously existed and/or would otherwise exist during the future period in question, if the project were not implemented. (source: conformity rule)
Inspection and Maintenance (I/M)	An emissions testing and inspection program implemented by States in nonattainment areas to ensure that the catalytic or other emissions control devices on in-use vehicles are properly maintained.
Intermodal	The ability to connect, and the connections between, modes of transportation.

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Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA)	Legislative initiative by the U.S. Congress that restructured funding for transportation programs. ISTEA authorized increased levels of highway and transportation funding from FY92-97 and increased the role of regional planning commissions/MPOs in funding decisions. The Act also required comprehensive regional and Statewide long-term transportation plans and places an increased emphasis on public participation and transportation alternatives.
Intersection	1) A point defined by any combination of courses, radials, or bearings of two or more navigational aids. 2). Used to describe the point where two runways, a runway and a taxiway, or two taxiways cross or meet. (FAA4)
Interstate	Limited access divided facility of at least four lanes designated by the Federal Highway Administration as part of the Interstate System. (NHTSA3)
Interstate Highway	Limited access, divided highway of at least four lanes designated by the Federal Highway Administration as part of the Interstate System.
Interstate Highway (Freeway or Expressway)	A divided arterial highway for through traffic with full or partial control of access and grade separations at major intersections. (FHWA3)
Interstate Highway System (IHS)	The system of highways that connects the principal metropolitan areas, cities, and industrial centers of the United States. Also connects the US to internationally significant routes in Canada and Mexico.
Isolated Rural Nonattainment and Maintenance Areas	Areas that do not contain or are not part of any metropolitan planning area as designated under the transportation planning regulations. Isolated rural areas do not have Federally required metropolitan transportation plans or TIPs and do not have projects that are part of the emissions analysis of any MPO's metropolitan transportation plan or TIP. Projects in such areas are instead included in statewide transportation improvement programs. These areas are not donut areas.
Lapse	The conformity determination for a transportation plan or TIP has expired, and thus there is no currently conforming transportation plan and TIP.
Light Truck	Trucks of 10,000 pounds gross vehicle weight rating or less, including pickups, vans, truck-based station wagons, and sport utility vehicles.
Light-Duty Vehicle	A vehicle category that combines light automobiles and trucks.
Limited Maintenance Plan	A maintenance plan that EPA has determined meets EPA's limited maintenance plan policy criteria for a given NAAQS and pollutant. To qualify for a limited maintenance plan, for example, an area must have a design value that is significantly below a given NAAQS, and it must be reasonable to expect that a NAAQS violation will not result from any level of future motor vehicle emissions growth.
Local Street	A street intended solely for access to adjacent properties.
Long Range Transportation Plan (LRTP)	A document resulting from regional or statewide collaboration and consensus on a region or state's transportation system, and serving as the defining vision for the region's or state's transportation systems and services. In metropolitan areas, the plan indicates all of the transportation improvements scheduled for funding over the next 20 years.
Long Term	In transportation planning, refers to a time span of, generally, 20 years. The transportation plan for metropolitan areas and for States should include projections for land use, population, and employment for the 20-year period.
Maintenance Area	Maintenance area is any geographic region of the United States previously designated nonattainment pursuant to the CAA Amendments of 1990 and subsequently redesignated to attainment subject to the requirement to develop a maintenance plan under section 175A of the CAA, as amended.
Metropolitan Planning Area	The geographic area in which the metropolitan transportation planning process required by 23 U.S.C. 134 and section 8 of the Federal Transit Act (49 U.S.C. app. 1607) must be carried out. (23CFR420)
Metropolitan Planning Organization (MPO)	1) Regional policy body, required in urbanized areas with populations over 50,000, and designated by local officials and the governor of the state. Responsible in cooperation with the state and other transportation providers for carrying out the metropolitan transportation planning requirements of federal highway and transit legislation. 2) Formed in cooperation with the state, develops transportation plans and programs for the metropolitan area.
Metropolitan Statistical Area (MSA)	Areas defined by the U.S. Office of Management and Budget. A Metropolitan Statistical Area (MSA) is 1) A county or a group of contiguous counties that contain at least one city of 50,000 inhabitants or more, or 2) An urbanized area of at least 50,000 inhabitants and a total MSA population of at least 100,000 (75,000 in New England). The contiguous counties are included in an MSA if, according to certain criteria, they are essentially metropolitan in character and are socially and economically integrated with the central city. In New England, MSAs consist of towns and cities rather than

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	counties. (DOE4) (DOE5) (FHWA3)
Metropolitan Transportation Plan (MTP)	The official intermodal transportation plan that is developed and adopted through the metropolitan transportation planning process for the metropolitan planning area, in accordance with 23 U.S.C. 134, 23 USC 135 and 49 U.S.C. 5303.
Milestone	The meaning given in CAA sections 182(g)(1) and 189(c) for serious and above ozone nonattainment areas and PM10 nonattainment areas, respectively. For all other nonattainment areas, a milestone consists of an emissions level and the date on which that level is to be achieved as required by the applicable CAA provision for reasonable further progress towards attainment.
Minor Arterials (Highway)	Roads linking cities and larger towns in rural areas. In urban areas, roads that link but do not penetrate neighborhoods within a community.
Mobile Source	1) The mobile source-related pollutants are carbon monoxide (CO), hydrocarbons (HC), nitrogen oxides (NOx), and particulate matter (PM-10 and PM 2.5). 2) Mobile sources include motor vehicles, aircraft, seagoing vessels, and other transportation modes. The mobile source related pollutants are carbon monoxide (CO), hydrocarbons (HC) or volatile organic compounds (VOCs), nitrogen oxides (NOx), and small particulate matter (PM-10).
Mobile Source Air Toxics (MSATS)	Identified by the EPA, MSATs are the 21 hazardous air pollutants generated in large part by transportation sources.
Mode	A specific form of transportation, such as automobile, subway, bus, rail, or air.
Motor Vehicle Emissions Budget	The portion of the total allowable emissions defined in the submitted or approved control strategy implementation plan revision or maintenance plan for a certain date for the purpose of meeting reasonable further progress milestones or demonstrating attainment or maintenance of the NAAQS, for any criteria pollutant or its precursors, allocated to highway and transit vehicle use and emissions.
Motorized Vehicle	Includes all vehicles that are licensed for highway driving. Specifically excluded are snow mobiles and minibikes. (FHWA3)
Multimodal	The availability of transportation options using different modes within a system or corridor.
National Ambient Air Quality Standards (NAAQS)	Federal standards that set allowable concentrations and exposure limits for various pollutants. The EPA developed the standards in response to a requirement of the CAA. Air quality standards have been established for the following six criteria pollutants: ozone (or smog), carbon monoxide, particulate matter, nitrogen dioxide, lead, and sulfur dioxide.
National Environmental Policy Act of 1969 (NEPA)	Established a national environmental policy requiring that any project using federal funding or requiring federal approval, including transportation projects, examine the effects of proposed and alternative choices on the environment before a federal decision is made.
National Highway System (NHS)	This system of highways designated and approved in accordance with the provisions of 23 U.S.C. 103b). (23CFR500)
Nitrogen Oxide Emissions	Nitrogen oxides (NOx), the term used to describe the sum of nitric oxide (NO), nitrogen dioxide (NO2) and other oxides of nitrogen, play a major role in the formation of ozone. The major sources of man-made NOx emissions are high-temperature combustion processes, such as those occurring in automobiles and power plants.
Nitrogen Oxides	A product of combustion of fossil fuels whose production increases with the temperature of the process. It can become an air pollutant if concentrations are excessive. (DOE6)
NOx Waiver	
Nonattainment Area (NAA)	Any geographic region which has been designated as nonattainment under section 107 of the CAA for any pollutant for which a national ambient air quality standard exists. (source: conformity rule)
Occupancy	The number of persons, including driver and passenger(s) in a vehicle. Nationwide Personal Transportation Survey (NPTS) occupancy rates are generally calculated as person miles divided by vehicle miles. (FHWA3)
Oxygenates	Any substance that when added to motor gasoline increases the amount of oxygen in that gasoline blend. Includes oxygen-bearing compounds such as ethanol, methanol, and methyl-tertiary-butyl-ether. Oxygenated fuel tends to give a more complete combustion of carbon into carbon dioxide (rather than monoxide), thereby reducing air pollution from exhaust emissions.
Ozone 03	Ozone is a colorless gas with a sweet odor. Ozone is not a direct emission from transportation sources. It is a secondary pollutant formed when VOCs and NOx combine in the presence of sunlight. Ozone is associated with smog or haze conditions. Although the ozone in the upper atmosphere protects us from

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	harmful ultraviolet rays, ground-level ozone produces an unhealthy environment in which to live. Ozone is created by human and natural sources.
Particulate Matter (PM10 and PM2.5)	Particulate matter consists of airborne solid particles and liquid droplets. Particulate matter may be in the form of fly ash, soot, dust, fog, fumes, etc. These particles are classified as "coarse" if they are smaller than 10 microns, or "fine" if they are smaller than 2.5 microns. Coarse airborne particles are produced during grinding operations, or from the physical disturbance of dust by natural air turbulence processes, such as wind. Fine particles can be a by-product of fossil fuel combustion, such as diesel and bus engines. Fine particles can easily reach remote lung areas, and their presence in the lungs is linked to serious respiratory ailments such as asthma, chronic bronchitis and aggravated coughing. Exposure to these particles may aggravate other medical conditions such as heart disease and emphysema and may cause premature death. In the environment, particulate matter contributes to diminished visibility and particle deposition (soiling).
Particulate Matter Emissions (PM)	Particulate matter (PM) is the general term used for a mixture of solid particles and liquid droplets found in the air. They originate from many different stationary and mobile sources as well as from natural sources, including fuel combustion from motor vehicles, power generation, and industrial facilities, as well as from residential fireplaces and wood stoves. Fine particles are most closely associated with such health effects as increased hospital admissions and emergency room visits for heart and lung disease, increased respiratory symptoms and disease, decreased lung function, and even premature death.
Parts Per Million (PPM)	A measure of air pollutant concentrations.
Person Trip	A trip taken by an individual. For example, if three persons from the same household travel together, the trip is counted as one household trip and three person trips.
Person-Miles	An estimate of the aggregate distances traveled by all persons on a given trip based on the estimated transportation-network-miles traveled on that trip.
Planning Funds (PL)	Primary source of funding for metropolitan planning designated by the FHWA.
Project	A locally sponsored, coordinated, and administered program, or any part thereof, to plan, finance, construct, maintain, or improve an intermodal passenger terminal, which may incorporate civic or cultural activities where feasible in an architecturally or historically distinctive railroad passenger terminal. (49CFR256)
Protective Finding	A determination by EPA that a submitted control strategy implementation plan revision contains adopted control measures or written commitments to adopt enforceable control measures that fully satisfy the emissions reductions requirements relevant to the statutory provision for which the implementation plan revision was submitted, such as reasonable further progress or attainment. (source: conformity rule)
Public Meeting or Hearing	A public gathering for the express purpose of informing and soliciting input from interested individuals regarding transportation issues.
Public Participation	The active and meaningful involvement of the public in the development of transportation plans and programs.
Rapid Rail Transit	Transit service using railcars driven by electricity usually drawn from a third rail, configured for passenger traffic, and usually operated on exclusive rights-of-way. It generally uses longer trains and has longer station spacing than light rail.
Reformulated Gasoline	1) Gasoline whose composition has been changed to meet performance specifications regarding ozone-forming tendencies and release of toxic substances into the air from both evaporation and tailpipe emissions. Reformulated gasoline includes oxygenates and, compared with gasoline sold in 1990, has a lower content of olefins, aromatics, volatile components, and heavy hydrocarbons. 2) Gasoline specifically developed to reduce undesirable combustion products.
Regionally Significant Project	Transportation project (other than an exempt project) that is on a facility which serves regional transportation needs (such as access to and from the area outside of the region, major activity centers in the region, major planned developments such as new retail malls, sports complexes, etc., or transportation terminals as well as most terminals themselves) and would normally be included in the modeling of a metropolitan area's transportation network, including at a minimum all principal arterial highways and all fixed guideway transit facilities that offer an alternative to regional highway travel. (source: conformity rule)
Right of Way	The land (usually a strip) acquired for or devoted to highway transportation purposes. (FHWA2)
Road Functional Classification	The classification of a road in accordance with the Bureau of Land Management (BLM) 9113.16.

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	Code as follows C-collector, L-local, R-resource. (DOI2)
Rural Highway	Any highway, road, or street that is not an urban highway.
Course Particulate Matter (PM-10)	Particulate matter which is less than 10 microns in size. A micron is one millionth of a meter. Particulate matter this size is too small to be filtered by the nose and lungs.
Safety Margin	The amount by which the total projected emissions from all sources of a given pollutant are less than the total emissions that would satisfy the applicable requirement for reasonable further progress, attainment, or maintenance. (source: conformity rule)
Sources	Refers to the origin of air contaminants. Can be point (coming from a defined site) or non-point (coming from many diffuse sources). [Stationary sources include relatively large, fixed facilities such as power plants, chemical process industries, and petroleum refineries. Area sources are small, stationary, non-transportation sources that collectively contribute to air pollution, and include such sources as dry cleaners and bakeries, surface coating operations, home furnaces, and crop burning. Mobile sources include on-road vehicles such as cars, trucks, and buses; and off-road sources such as trains, ships, airplanes, boats, lawnmowers, and construction equipment.
Stakeholders	Individuals and organizations involved in or affected by the transportation planning process. Include federal/state/local officials, MPOs, transit operators, freight companies, shippers, and the general public.
State Implementation Plan (control strategy)	A State Implementation Plan (SIP) that contains specific strategies for controlling the emissions and reducing ambient levels of pollutants in order to satisfy CAA requirements for demonstrations of reasonable further progress and attainment.
State Transportation Agency	The State highway department, transportation department, or other State transportation agency to which Federal-aid highway funds are apportioned. (23CFR420)
State Transportation Improvement Program (STIP)	A staged, multi-year, statewide, intermodal program of transportation projects, consistent with the statewide transportation plan and planning processes as well as metropolitan plans, TIPs, and processes.
Statewide Transportation Plan	The official statewide intermodal transportation plan that is developed through the statewide transportation planning process.
Stationary Source	Relatively large, fixed sources of emissions (i.e. chemical process industries, petroleum refining and petrochemical operations, or wood processing).
Surface Transportation Program (STP)	Federal-aid highway funding program that funds a broad range of surface transportation capital needs, including many roads, transit, sea and airport access, vanpool, bike, and pedestrian facilities.
Title VI	Title VI of the Civil Rights Act of 1964. Prohibits discrimination in any program receiving federal assistance.
Transportation Conformity	The link between air quality planning and transportation planning. Process to assess the compliance of any transportation plan, program, or project with air quality implementation plans. The conformity process is defined by the Clean Air Act.
Transportation Control Measures (TCM)	Any measure that is specifically identified and committed to in the applicable implementation plan that is either one of the types listed in section 108 of the CAA, or any other measure for the purpose of reducing emissions or concentrations of air pollutants from transportation sources by reducing vehicle use or changing traffic flow or congestion conditions. Notwithstanding the first sentence of this definition, vehicle technology-based, fuel-based, and maintenance-based measures which control the emissions from vehicles under fixed traffic conditions are not TCMs for the purposes of the conformity rule. (source: conformity rule)
Transportation Demand Management (TDM)	Programs designed to reduce demand for transportation through various means, such as the use of transit and of alternative work hours.
Transportation Equity Act for the 21st Century (TEA-21)	Authorized in 1998, TEA-21 authorized federal funding for transportation investment for fiscal years 1998-2003. Approximately \$217 billion in funding was authorized, which was used for highway, transit, and other surface transportation programs.
Transportation Improvement Program (TIP)	A staged, multi-year, intermodal program of transportation projects covering a metropolitan planning area which is consistent with the metropolitan planning process for the metropolitan planning area, developed pursuant to 23 CFR part 450. (source: conformity rule)
Transportation Management Area (TMA)	1) All urbanized areas over 200,000 in population, and any other area that requests such designation. 2) An urbanized area with a population over 200,000 (as determined by the latest decennial census) or other area when TMA designation is requested by the Governor and the MPO (or affect local

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	officials), and officially designated by the Administrators of the FHWA and the FTA. The TMA designation applies to the entire metropolitan planning area(s). (23CFR500)
Transportation Plan	The official intermodal metropolitan transportation plan that is developed through the metropolitan planning process for the metropolitan planning area, developed pursuant to 23 CFR part 450. (source: conformity rule)
Travel Model Improvement Program (TMIP)	TMIP supports and empowers planning agencies through leadership, innovation and support of planning analysis improvements to provide better information to support transportation and planning decisions.
Unified Planning Work Program (UPWP)	The management plan for the (metropolitan) planning program. Its purpose is to coordinate the planning activities of all participants in the planning process.
United States Code (USC)	Contains a consolidation and codification of all general and permanent laws of the U.S. (USCG1)
Urbanized Area	Area that contains a city of 50,000 or more population plus incorporated surrounding areas meeting size or density criteria as defined by the U.S. Census.
Vehicle Miles of Travel (VMT)	The number of miles traveled nationally by vehicles for a period of 1 year. VMT is either calculated using 2 odometer readings or, for vehicles with less than 2 odometer readings, imputed using a regression estimate. (DOE5)
Vehicle-Miles (Highway)	Miles of travel by all types of motor vehicles as determined by the states on the basis of actual traffic counts and established estimating procedures.
Vehicle-Miles (Transit)	The total number of miles traveled by transit vehicles. Commuter rail, heavy rail, and light rail report individual car-miles, rather than train-miles for vehicle-miles.
Volatile Organic Compounds (VOCs)	VOCs come from vehicle exhaust, paint thinners, solvents, and other petroleum-based products. A number of exhaust VOCs are also toxic, with the potential to cause cancer.
Transportation Analysis Zone (TAZ)	The smallest geographically designated area for analysis of transportation activity. A zone can be from one to ten square miles in area. Average zone size depends on the total size of study area.

Resource and look-up tool: FHWA Planning Glossary

http://www.fhwa.dot.gov/planning/glossary/glossary_listing.cfm

Transportation Control Measures

- (i) Programs for improved public transit;
- (ii) Restriction of certain roads or lanes to, or construction of such roads or lanes for use by, passenger buses or high-occupancy vehicles (HOV);
- (iii) Employer-based transportation management plans, including incentives;
- (iv) Trip-reduction ordinances;
- (v) Traffic flow improvement programs that achieve emissions reductions;
- (vi) Fringe and transportation corridor parking facilities serving multiple-occupancy vehicle programs or transit service;
- (vii) Programs to limit or restrict vehicle use in downtown areas or other areas of emissions concentration particularly during periods of peak use;
- (viii) Programs for the provision of all forms of high-occupancy, shared-rides;
- (ix) Programs to limit portions of road surfaces or certain sections of the metropolitan area to the use of non-motorized vehicles or pedestrian use, both as to time and place;
- (x) Programs for secure bicycle storage facilities and other facilities, including bicycle lanes, for the convenience and protection of bicyclists, in both public and private areas;
- (xi) Programs to control extended idling of vehicles;
- (xii) Reducing emissions from extreme cold-start conditions;
- (xiii) Employer-sponsored programs to permit flexible work schedules;
- (xiv) Programs and ordinances to facilitate non-automobile travel, provision and utilization of mass transit, and to generally reduce the need for single-occupant vehicle travel, as part of transportation planning and development efforts of a locality, including programs and ordinances applicable to new shopping centers, special events, and other centers of vehicle activity;
- (xv) Programs for new construction and major reconstruction of paths, tracks, or areas solely for use by pedestrian or other non-motorized means of transportation when economically feasible and in the public interest. For purposes of this clause, the Administrator shall also consult with the Secretary of the Interior; and
- (xvi) Programs to encourage removal of pre-1980 vehicles.*

*Note: Excluded from CMAQ Funding under TEA-21.

This list of TCMs may be found at 42 USC Section 7408(f)(1).